

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/IB2004/002927

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01S13/93

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 101 33 945 A (BOSCH GMBH ROBERT) 6 February 2003 (2003-02-06)	1-3, 5-7, 9-11, 13-15
Y	figures 1,2,4-8  page 4, paragraph 36 - paragraph 39 page 6, paragraph 54 - paragraph 55 page 6, line 65 - line 68 page 7, paragraph 56 - paragraph 59	4, 8, 12, 16
Y	US 2001/031068 A1 (OKA KENJI ET AL) 18 October 2001 (2001-10-18) abstract; figures 1,2 ----- -/-	4, 8, 12, 16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

3 December 2004

Date of mailing of the international search report

16/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Niemeijer, R

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/IB2004/002927

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 492 935 B1 (HIGUCHI TAKASHI)  10 December 2002 (2002-12-10)  abstract; figures 1,3  column 2, line 41 - column 3, line 6  column 4, line 21 - line 26  column 4, line 43 - line 58  -----</p>	1,5,9,13

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/002927

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 10133945 A	06-02-2003	DE 10133945 A1 WO 03008995 A1 EP 1412773 A1	06-02-2003 30-01-2003 28-04-2004
US 2001031068 A1	18-10-2001	JP 2001296357 A JP 2001330665 A	26-10-2001 30-11-2001
US 6492935 B1	10-12-2002	JP 2001099930 A	13-04-2001